

## Bio-data of A S M Masuduzzaman

1. **Name** : **Dr. A S M Masuduzzaman**
2. **Mother's Name** : Momotaz Bagum
3. **Father's Name** : A K M Giashuddin
4. **Sex** : Male
5. **Date of Birth** : 03-05-1965
6. **Nationality** : Bangladeshi
7. **Marital status** : Married
7. **Present Position** : Chief Scientific officer and Head, Bangladesh Rice Research Institute, Plant Breeding Division, Bangladesh
8. **Mailing Address** : Bangladesh Rice research Institute, Plant Breeding Division, Bangladesh.
9. **E-mail** : [Masudbrri@gmail.com](mailto:Masudbrri@gmail.com) Phone no: 01721964002

### 10. Educational Qualification:

Name of institutions	Degree	Year	Major subjects
Bangladesh Agricultural University/ Research at IRRI	Ph.D	2010	Molecular Genetics and Breeding
Bangabandhu SMR Agricultural University	M.S	2000	Genetics & Plant Breeding
Bangladesh Agricultural University	B. Sc. in Ag (Hons)	1991	Genetics, Agronomy, Pathology, Enomology.
MC College, Sylhet	HSC	1983	English, Chemistry, Biology, Math
NGFF high School	SSC	1981	English, , Chemistry, Biology

11. **Length of Service** : Year(s)  Month(s)

### 12. Working Experience:

Sl no	Position	Nature of work	Date from/to
1	<b>Chief Scientific officer and Head</b> , Bangladesh Rice Research Institute, Regional Station, Habiganj, Bangladesh	Administrative and financial management. Planning and execution on varietal development programme on rice	24-08-2013 to date
2	<b>Principal Scientific Officer</b> Plant Breeding Division, BRRI, Gazipur	Planning and execution on varietal development programme on rice	01-07-2011 to 23-08-2013
3	<b>Project Director and Principal Scientific Officer</b> , Hybrid Rice	Project and financial management. Planning	01-01-2010 to

	Project, BRRI	and execution on varietal development programme on hybrid rice	30-06-2011
4	<b>Principal Scientific Officer</b> Plant Breeding Division, BRRI, Gazipur	Planning and execution on varietal development programme on rice	18-12-07 to 31-12-2009
5	<b>Senior Scientific Officer and Head</b> BRRI Regional Station, Bhanga, Faridpur	Served as in charge of the station	28-05-2002 to 31-12-2008
6	<b>Senior Scientific Officer</b> Plant Breeding Division, BRRI, Gazipur	Planning and execution on varietal development programme on rice	11-04-1999 to 27-05-2002
7	<b>Scientific Officer</b> Plant Breeding Division, BRRI, Gazipur	Execution on varietal development programme on rice	21-11-1994 to 10-04-1999

### 13. Job Description:

a) Working as **Chief Scientific officer and Head**, Bangladesh Rice research Institute, Regional Station, Habiganj for administrative and financial management of the station as well planning and execution of breeding programme to develop high yielding Deep water and aerobic Aus rice varieties with acceptable grain quality, resistance to major pest-diseases.

b) Working to release high yielding salinity and submergence tolerance rice varieties for tidal areas.

c) Working as PI under CSISA project to develop rice varieties such as Direct seeded rice varieties, heat tolerance varieties as well high yielding short duration boro varieties for haor areas.

### 14. Foreign Training:

Title	From	To	Training venue	Sponsors
1. Applied Plant Breeding	10-03-97	22-06-97	IAC, Netherlands	Dutch Govt
2. Training of trainers	10-03-97	21-06-97	IRRI, Philippines	IRRI
3. Multi-stakeholder process	24-11-02	07-12-02	China Agricultural University	Dutch Govt
4. Participatory Plant Breeding	10-05-04	21-05-04	IAC, Netherlands	Dutch Govt
5. Integrated quality management	24-05-04	04-06-04	IAC, Netherlands	Dutch Govt
6. Data analysis using Cropstat	06-08-07	11-08-07	IRRI, Philippines	IRRI
7. Field visit	07-03-03	14-03-03	Counter Agricultural University, Vietnam	IRRI
8. Phenotypic methods for host plant resistance	30-08-09	02-09-09	Panjab Agricultural	IRRI

**15. A. Local Training:**

<b>Title</b>	<b>From</b>	<b>To</b>	<b>Training venue</b>	<b>Sponsoring Agency</b>
1.Rice Production, Applied Research and Administration	03-12-94	31-01-95	BRRI, Gazipur	BRRI
2.Introduction to new development in GXE interaction and interpretation	17 -08-96	29-08-96	BRRI, Gazipur	IRRI
3.Problem-based technology generation for rainfed lowland rice environment	12-10-97	12-25-97	BRRI, Gazipur	IRRI
4.Hybrid rice technology	01-01-01	01-04-01	BRRI, Gazipur	HAAS, China
5.Administrative and financial management	10-10-09	24-10-09	BARD, Comilla	BARC

**15. B. Local Seminar/ Workshop/field trip:**

<b>Title</b>	<b>From</b>	<b>To</b>	<b>Training venue</b>	<b>Sponsors</b>
1.Training workshop on Biometry	24/04/2009	24/04/2009	BRRI	IRRI
2.Planning workshop of STRASA project	21/4/2009	22/4/2009	BRRI	IRRI
3.Rice research extension workshop	29-01002	31-01-02	BRRI	BRRI
4.20 <sup>th</sup> Bangladesh Science Conference	28-11-98	30-11-98	BUET, Dhaka	BAAS
5.Workshop of IFAD/IRRI/BRRI project	04-01-04	05-01-04	BRRI	IRRI
6. CSISA planning meeting	16-12-2014	18-12-2014		

**15. B. Foreign Seminar/ Workshop/field trip:**

<b>Title</b>	<b>From</b>	<b>To</b>	<b>Training venue</b>	<b>Sponsors</b>
1. Hybrid rice technology	01-01-01	01-04-01	BRRI, Gazipur	HAAS, China
2. Hybrid rice Industrialization in Asian countries	16-09-10	26-09-10	Changsha, China	China Govt.
3. Field visit in Longping High-Tech Agro. Lid	15-07-11	20-07-11	Changsha, China	Fund from BARC and China
4. CSISA planning meeting	16-12-2014	18-12-2014	Hyderabad, India	IRRI

5. Planning meeting on hybrid rice	01-09-2014	04-09-2014	Sichuan Agril. University, China	China-Bangladesh hybrid Rice project
6. Field visit on hybrid rice	01-09-2014	04-09-2014	Sichuan Agril. University, China	China-Bangladesh hybrid Rice project
7. Field visit	07-03-03	14-03-03	Counter Agricultural University, Vietnam	IRRI
8. Phenotypic methods for host plant resistance	30-08-09	02-09-09	Panjab Agril University, India	IRRI
9. 6 <sup>th</sup> Rice Genetics Symposium	16-11-09	20-11-09	Manila, Philippines	IRRI, Philippines

**16. a. Field of Specialization:** Plant Breeding / Molecular Biology **16.b. English proficiency:** Good

**17. Country visited:** France, India, Malaysia, Netherlands, U.K., Germany, Belgium, China, Philippines, Thailand, Pakistan and Vietnam

**18. Research award:**

- a) Awarded Netherlands Government Fellowship for three times.
- b) Honoured as "A" class Trainer in "Training of trainers" course, IRRI, Philippines during 12 Nov - 07 Dec, 2001

**19. Membership of Professional Societies:**

1. Vice-president of AFSTRI (Association of fellows, scholars, trainees and residents of IRRI), 2007-08.
2. General Member, Plant Breeding & Genetics Society of Bangladesh.
3. Member of Executive Committee, 1996-1997, Bangladesh Association for Advancement of Science
4. General Member, Krishebid Institution of Bangladesh.

**20. Involvement with other activities**

1. Writing articles in daily new papers.
2. Ten TV documentary have made and already been broadcasted in Different TV channels.
3. Have experience on hybrid rice seed production as PD, hybrid rice project .

4. One book published on hybrid seed production and one poetry book named “ A Jiban mishay noy”

5. Served as coordinator of an international training on hybrid rice seed production (1 month) at BIRRI funded by ESCAP fund.

## 21. Other relevant experience as Head of BIRRI Regional Stations:

**a) Management of Regional station:** As Head of BIRRI R/S Bhanga and Habiganj involved with planning and execution of research and development programme.

**b) Monitoring and evaluation:** Worked with national Seed Board for release of BIRRI dhan 42, 43, and 62.

**c) Technology transfer activities:** Organized many field days for extension people/farmers during 2002- 2004. and 2013-2015.

**d) Action plan preparation:** A flood rehabilitation action plan (including earth work, land development, fencing of area etc ) work for BIRRI Bhanga have been prepared after flood of 2004..

**e) Membership of Agricultural Technical Committee (ATC) :** Member of ATC in Barisal region. Attended 6 ATC and DEPC meeting at Dhaka and Barisal Region.

## 22. Involvement in Special Project(s) :

Name of Research Project(s)	Donor	Position	Implementation Status	Total Fund	Remarks
<b>Already Implemented</b>					
1 BMZ project of IRRI “ Identifying new QTLs for submergence tolerance”	German govt.	<b>Ph.D Scholar</b> at IRRI	Ph.D thesis completed from 01-09-04 to 31-12-08.	30,000\$ ( 4 years)	Novel genes for submergence tolerance identified at IRRI
2. IRRI project “ Validation technologies in flood prone areas	IFAD-funded	<b>Principal Investigator</b> at BIRRI Bhanga	Implemented from 28-06-02 to 01-07-04	3000\$ ( 2 years)	Validated improved deepwater rice varieties
4. CYMIT project “Arsenic mitigation project”	USAID-Cornell-Texas A&M University	<b>Principal Investigator</b> at BIRRI Bhanga	Implemented from 20-06-03 to 01-06-04	2500\$ ( 1 years)	Conducted research on mitigation of Arsenic soils
5. BMZ salinity project - Incorporating genes for tolerance of abiotic stress”	German govt.	Worked as <b>Principal Investigator</b> at BIRRI	from 01-01-2009 to 2010	18,000\$ (3 years)	Conducted research to evaluate salt tolerant varieties
6. NATP-PIU-Hybrid rice project	NATP project	Worked as <b>Principal Investigator</b>	Implemented from 01-01-2012 to 30-	42 lac taka	Two new hybrid rice varieties identified

at BIRRI 06-2014

7. BAS-USDA-salinity project	USDA fund	Worked as <b>Principal Investigator</b> at BIRRI	Implemented from 01-07- 2010 to 30-06-2013	40 lac taka	Two salt and submergence tolerant rice lines developed
<b>On-going at present</b>					
1. BIRRI-KGF-aerobic rice project		Working as <b>Project coordinator</b> at BIRRI	From May 2013 to date	70 lac taka	Two aerobic Aus rice lines developed
2. IAPP-tidal project		Working as <b>Principal Investigator</b> at BIRRI	From May 2013 to date	4 lac taka	Two salt and submergence tolerant rice lines is under evaluation
3. China-Bangladesh Joint Hybrid Rice Project	Chinese Govt	Working as working scientist at BIRRI	From May 2013 to date	2.4 core taka	26 Chinese super hybrids are under field trial in Bangladesh
4. CSISA project of IRRI	Bill and Melinda Gates Foundation and USAID	Working as Project Leader at BIRRI	Implementing from July 2012	14 lac taka	Conducting research to develop heat tolerant, direct seeded and high yielding rice.

### 23. Research achievements:

1. Directly involved with variety release process of BIRRI Dhan 42, 43, 48 and BIRRI hybrid dhan4.
2. As PD, hybrid rice project- research management capacity gained for smoothly running the hybrid rice project and developed a net work with seed companies and international organizations for hybrid seed production. Three hybrid with yield potential of 10 t/ha have developed under BARC-NATP hybrid rice project.
3. Parental lines (A, B and R lines) suitable for Bangladesh condition have been selected and hybrid seed production package have been standardized through NATP-hybrid rice project.
4. One line (CN-6) has developed having yield potentials more than BIRRI dhan29.
5. Novel genes for submergence tolerance identified through molecular genetic studies during Ph.D research at IRRI. Two short duration salt and submergence tolerance lines developed using experience in molecular breeding (ALART completed) suitable for coastal areas.
6. Through an on-going project funded by Chinese government -26 new super hybrids have been collected.
7. Developed a cooperation with Sichuan Agril University, China for hybrid rice R and D.

#### 24. List of technologies developed: 6

Name of technology	Remarks	Present status of adoption
1. IR77092-B-2R-B-10 and BR9377-9-21-3B developed for coastal salinity and submergence prone areas as project leader	In ALART trial - IR77092-B-2R-B-10 and BR9377-9-21-3B gave higher yield than BRRI dhan41 and these two lines are 9 days earlier than BRRI dhan41.	These two lines have been selected for PVT during T. aman 2015
2. Advanced Deep water lines (BR9892-6-2-2B, BR9392-6-1-B) developed	IR77092-B-2R-B-10 and BR9377-9-21-3B gave higher yield than local Habiganj aman1 in flooded condition.	These two DWR lines have been selected for RYT
3. IR84788-40-3-3-1-1 and BR7182-2B-1-HR4 developed as aerobic Aus rice	IR84788-40-3-3-1-1 and BR7182-2B-1-HR4 gave higher yield than BRRI dhan42 under aerobic soil condition during aus season. and root length of these two line is longer than BRRI dhan42.	These two aerobic lines have been selected for RYT and PVS trial as aerobic Aus rice
4. BRR dhan48 (BR5563-3-3-4-1) for T. Aus season	Worked to develop BR5563-3-3-4-1 as project Leader (2000-2003) of T. Aus rice programme	Released as BRRI dhan48.
5. BRRI hybrid dhan4 for T. aman season.	Directly involved with variety release process of BRRI hybrid dhan4	Released as BRRI hybrid dhan4 for T. aman season
6. Two CMS lines identified as stable CMS in Bangladesh condition	Worked to select two CMS lines under NATP project	Could be use as stable CMS line

#### 25. Research programme developed from GOB fund: 14

Sl#	Name of the GOB Project	Position	No. of Experiments
<b>Implemented</b>			
1	" Transplanted Aus rice Improvement programme " at BRRI, T. Aus, 2001-02	Project Leader	10
2	"Development of short duration of T. Aus rice varieties, T. Aus, 2002-03	Project Leader	10
3	Leader of project "Development of rice varieties with low spikelet sterility and late senescence leaf", T.Aus, 2002-03	Project Leader	6

4	" Breeding for high grain quality rice varieties" ,T. Aman, 2002-03	Project Leader	10
5	"Improvement of Deep water rice varieties" at BRRRI Bhanga, DWR, 2002-03	Project Leader	9
6	" Improvement of Deep water rice varieties at BRRRI Bhanga, DWR, 2003-04	Project Leader	9
7	" Improvement of Deep water rice at BRRRI Bhanga, DWR, 2004-05	Project Leader	9
8	" Breeding for high grain quality rice varieties" for " yield improvement of Nizersail, T. Aman, 2003-04	Project Leader	10
<b>On-going</b>			
9	Development of high yielding varieties for the tidal wet lands of Bangladesh, T.Aman 2013-14	Project Leader	5
10	Development of Varieties for the Deep water rice ecosystem, DWR, 2014-15	Project Leader	3
11	Development of aerobic Aus rice varieties, T. Aus, 2014-15	Project Leader	6
12	Development of direct seeded Aus rice varieties, T. Aus, 2014-15	PI	3
13	Development of heat tolerant Aus rice varieties, T. Aus, 2014-15	PI	2
14	Development of short duration boro varieties for haor areas, boro, 2014-15	PI	3

**26. Number of rice varieties developed: 1**  
BRRRI dhan48

**27. Number of Publications:**

A. International Journal	5	B. National Journals	12
C. Books/ Bulletin:	2	D. Proceedings	4
E. News papers:	19		

**27.A. Full Paper in International journals: 5**

Mackill, D.J., E. Septingsih, A.M. Pamplona, D.L. Sanchez, K.M.Iftekharuddaula, **A.S.M. Masuduzzaman**, B.Collard, C.N. Neeraja, G. Vergara, R. Maghirang-Rodriguez, S. Heurer and A. Ismail. 2007. Marker Assisted Selection for Submergence Tolerance in Rice. *Molecular Plant Breeding*. 5(2): 207-208.

**Masuduzzaman, A.S.M.**, A K M Shamsuddin., E. Septingsih ,A. Pamplona, submergence D. Sanchez, S. Heurer, D.J Mackill. 2009. Haplotype diversity and molecular mechanism submergence tolerance in relation with expression studies of *sub1* gene in rice. Full paper accepted for publishing in *Theor. Appl. Genetics*.

Septingsih E.M., A.M. Pamplona, L. Sanchez, K.M.Iftekharuddaula, **A.S.M. Masduzzaman**, G. Vergara, S. Singh, T.T.M Dang, R. Maghirang-Rodriguez, C.N. Neeraja, and D.J. Mackill. 2008. The *Sub1* gene and its implications in developing submergence tolerant rice cultivars. In abstract of the 5<sup>th</sup> International Crop Science Congress and Exhibition, April 13-18, Jeju, Korea, 5<sup>th</sup> ICSC organizing committee, Seoul, Korea, p177.

Mackill, D.J., A. Ismail, S. Heurer, E. Septingsih, A. Pamplona, D. Sanchez, G. Vergara, R. Labios, R. Garcia, N. Ramos, J. Borgonia, J. Mendoza, G. Perez, M. Perez, E. Suito. S.A. Angaji, **A.S.M. Masduzzaman**, S. Singh and A.M Toledo. 2008. Submergence-tolerant rice: *In* Scientific poster presentation. Progress in breeding and genetics. **First place winner** in 75th NRCP General Membership Assembly, Manila, Philippines.

**Masduzzaman, A.S.M.**, A K M Shamsuddin. M A Salam, E. Septingsih, A. Pamplona, D. Sanchez, S. Heurer, D.J Mackill. 2009. Molecular diversity and expression studies of *sub1* gene haplotypes of rice, differing in tolerance to submergence. Poster paper presented in 6th Rice Genetics Symposium, Manila, Philippines (from 16-19 November, 2009) and full paper accepted for publishing in proceeding of the symposium.

## 27.B.Full Paper in national journal: 12

01. **Masduzzaman, A.S.M.**, M. Haque, P. K. Saha and M.S. Ahmed. 2000. Inheritance of anthocyanin pigmentation and awning in rice. Bangladesh J. Pl. Breed. Genet. 13 (1): 1-5.

02.. **Masduzzaman, A.S.M.** 1999. Screening and selection of rice for elongation ability in early segregating generation. Bangladesh J.Pl. Breed. Genet. 12(1 &2): 43-48.

03.. **Masduzzaman A.S.M** and M.G. Rasul. 1998. The inheritance of stem elongation and early heading in rice. Bangladesh J. Pl. Breed. Genet. 11(1&2): 29-33.

04. **Masduzzaman, A.S.M.**,P.K. Saha Ray, M.A.K. Mian, B, Prasad and P.S. Biswas. 2003. Evaluation for tolerance to salinity in rice. Bangladesh J. Pl. Breed. Genet. 16(1):45-52.

05. **Masduzzaman A.S.M** and G.M. Rasul. 1999. Genetics of seedling length and plant height in rice. Bangladesh J. Pl. Breed. Genet 12(1&2) :13-19.

06. **Masduzzaman A.S.M** and A.W. Julfiquar. 2002 Inheritance pattern of grain shape, apiculus colour and spreading panicles in rice (*Oryza sativa L.*) Bangladesh. J. Pl. Breed. Genet. 15(1): 31-37.

07. **Masduzzaman A.S.M**, M.E. Haque. M.A Salam and M.S. Alam. 2003. Genetic variability and heterosis of yield contributing traits in rice (*Oryza sativa L.*). Bangladesh J. Pl. Breed. Genet. 16(1):17-22.

08. **Masduzzaman A.S.M** and A.R. Gomasta. 2004. Participatory selection of deepwater rice varieties under “seedling transplanting method” in flood prone eco-system of Bangladesh. Bangladesh J. Pl. Breed. Genet.,17(1):45-50.

09. Ahmed, M.S. ,M.G. Rasul, M.K. Bashir, **A.S.M. Masuduzzaman** and M.A.K Mian. 2000. Variability and heterosis in snake gourd. Bangladesh. J.Pl. Breed. Genet 13(1) : 27-32.
10. Ray; M.S. P.K.S., Ali, T.L. Aditya, B.R. Debi and **A.S.M. Masuduzzaman**. 1998. Genetype-location interaction in irrigated rice. Bangladesh. J.Pl. Breed. Genet. 11(1& 2) : 51-54.
11. Ray P.K. S and **A.S.M. Masuduzzaman**. 2000. Correlated response & path analysis in irrigated rice and their implication in selection. Annals of Bangladesh. Agriculture. 10(1) : 61-65.
12. Ray P.K. S and **A.S.M. Masuduzzaman**. 2003. Multivariate analysis in rice. Bangladesh. J. Pl. Breed. Genet. 17( 2) (In press).

#### **27.C. Books/ monogram/ bulletins: 2**

1. **Masuduzzaman A.S.M** and M. Haque. 2004. A book ‘ Food security and sustainable rice cultivation in Bangladesh’. Accepted for BRRI publication.
2. **Masuduzzaman. A. S. M.** 2003. A bulletin in Bengali “ Boro dhan katar por ropon podotita juli aman dhanar chash”. Published by BRRI.

#### **27.D. Proceedings of seminar/workshop: 4**

1. Development of varietal technologies for different rice ecosystems for sustaining food self sufficiency in Bangladesh. In proceeding of rice research -extension workshop on modern rice cultivation at BRRI on 29-31 January 2002.
2. "Participatory evaluation of Deep water rice varieties under seedling transplanting method in flood prone ecosystem of Bangladesh" in the workshop of IFAD/IRRI/BRRI project at BRRI, Gazipur on 4 th January, 2004.
3. Molecular and genetic diversity studies of rice varieties grown in flood prone areas, International symposium on plant biotechnology toward stress and enhancing crop yield 9 ISPB-2011, September 28-Oct 1, 2011, Ranchi, India.
4. Molecular studies of SUB1 gene haplotypes in rice. 16-20 November, 2009, 6<sup>th</sup> Rice Genetics Symposium, IRRI, Manila, Philippines

#### **27.E. Popular articles: 19**

1. **Masuduzzaman A.S.M** 2003. Bio-technological Tools for Developing Rice Varieties. Editorial column, Bangladesh Observer.
2. **Masuduzzaman A.S.M.** 1995. Deep-water Rice Ecosystem. Editorial column, Bangladesh Observer.
3. **Masuduzzaman, A.S.M.**1996. Rainfed lowland Rice Ecosystem. Editorial column, Bangladesh Observer.
4. **Masuduzzaman, A.S.M.**1996. Irrigated Rice Ecosystem. Editorial column, Bangladesh Observer.
5. **Masuduzzaman, A.S.M.**1997. Poverty Alleviation, food security and sustainable Rice. Observer Magazine, Bangladesh Observer.

6. **Masduzzaman, A.S.M** and Mahiul Haque. 2002. Self-sufficiency in rice production. Editorial column, Bangladesh Observer.
7. **Masduzzaman, A.S.M** .2002. A challenge of managing coastal salinity. Editorial column, Bangladesh Observer.
8. **Masduzzaman, A.S.M**.2003. BRRI udvabito hybrid dhanar jat., Daily Jugantar.
9. **Masduzzaman, A.S.M**.2003 Hybrid Rice Seed Production Technology. Editorial column, Bangladesh Observer.
10. **Masduzzaman, A.S.M**.2003 .Traditional Aromatic Rice Varieties and our Future Ex
11. **Masduzzaman A.S.M**.2003. Minimizing Yield Gap of Rice at Farmers Field. . Editorial column, Bangladesh Observer.
12. **Masduzzaman, A.S.M**.2003. Rainfed T. Aman rice in tidal wet lands(non-saline). Editorial column, Bangladesh Observer.
13. **Masduzzaman, A.S.M**.2004. Partially Irrigated Rice (T. Aus) Ecosystem. . Editorial column, Bangladesh Observer.
14. **Masduzzaman, A.S.M**.2004. Upland Rice (B. Aus) Ecosystem. . Editorial column, Bangladesh Observer.
15. **Masduzzaman, A.S.M**.2004. A challenge of managing Flood in Bangladesh. Editorial column. Bangladesh Observer.
16. **Masduzzaman, A.S.M**.2004. Rice Varieties Adopted in Flooded Areas. Observer Magazine,
17. **Masduzzaman, A.S.M**.2003. Complete Flood Control to Secure Rice Cultivation and to Eliminate Poverty from Bangladesh. Editorial column, Bangladesh Observer.
18. **Masduzzaman, A.S.M**.2003. A challenge of managing drought stress in T. Aman rice field.
19. **Masduzzaman, A.S.M**.2003. Deep Water Rice in Flood prone ecosystem. Editorial column, Bangladesh Observer.

**28. Title of MS thesis:** Screening and selection for tolerance to salinity in rice.

**Title of Ph.D thesis:** Molecular and genetic studies of adaptive and physiological traits of submergence tolerance in rice ( *Oryza sativa* L.)

**29. Ph.D student supervised: 1**

Helana Bulbul, Rajshahi University, 2013

**Title of the thesis:** Sustainable water use for hybrid and inbred rice cultivation in Bangladesh.

**Date: 03-03- 2014**

**Masduzzaaman)**

Signature  
(A S M